

ABSTRACT

A particular signal from a legacy photonic source may have a distribution of wavelengths in a particular signal that is excessively broad for modern, narrowband equipment. In order to provide a drop-in apparatus for integrating modern narrowband signal carrying and handling devices with legacy equipment as either sender or receiver, various implementations of a data stabilizer are provided. Data stabilizers may rely on information transfer mechanisms, signal directors, wavelength shifters, cross-gain modulation, cross-phase modulation, and four-wave mixers. Moreover, data stabilizers may be implemented directly as multiplexers, or integrated into systems using conventional multiplexers.

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